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TO : Chief, OC-E

10# SPM 7-176
DATE: 19 September 1957

FROM : Chief, OC-SPD

SUBJECT: Antenna Requirement

1. A requirement has developed for [redacted] parabolic dishes. Upon discussion with [redacted] of your office and [redacted] it appears that such a dish can be fabricated satisfactorily.

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2. Basically, the dish would be designed to accept various dipoles to accommodate any frequency in the range from 1 KMC to 10 KMC, with the dipoles either plugged or screwed in to permit rotation of the element from horizontal to vertical polarity. [redacted]

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[redacted] Maximum gain is the criteria. Pattern or lobes are not critical. The use of a lense to accomplish greater gain is thought to be worth exploration.

3. The antenna, mounting pedestal, and feed must not exceed 20"x20"x12" outside dimensions, packaged, or weigh more than 60 lbs. packaged. It is not necessary, though desirable, to place all components in one package, the cube and weight limitation refers to any one package.

4. The contract should include unit packaging for air pouch shipment with some appropriate lightweight material such as reinforced corrugated cardboard, plywood or fiber glass.

5. Quantities and general parameters are:

5 ea. 3' parabolic dishes with hand orientated self-standing pedestal mount, bearing circle and adjustable height - 6 feet from the floor, to the floor - measured from the dish bottom.

DOC 1	REV DATE 10/4/80	BY 37169
ORIG COMP 33	DPI 56	TYPE 2
ORIG CLASS 5	PAGES 2	REV CLASS 6
JUST 22	NEXT REV 2010	AUTH: HR 70-2

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1 ea. Dipole and feed [redacted] to match 50 OHM
unbalanced receiver input. [redacted] suggested
possibly a 2 element dipole).

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6. [redacted] advised your office informally that the cost
for one complete unit would be about \$3400.00. The unit
cost will undoubtedly be considerably less for 5 units.
This job is chargeable to Allotment 8-7912-50-600.

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Distribution:
Orig. & 1 - Addressee

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